

Scottish regional population projections with POPGROUP

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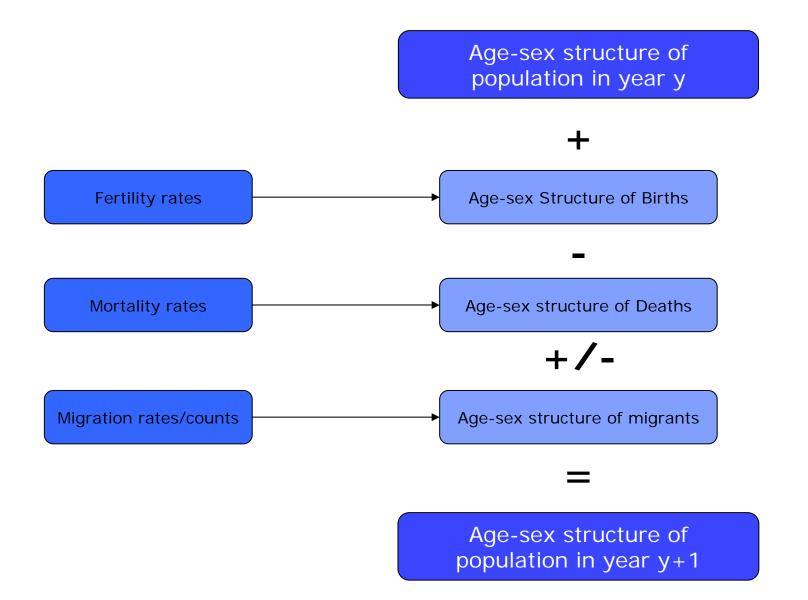
- POPGROUP set up for regional projections
- Interpreting results
- Making your own projections

- POPGROUP set up for regional projections
- Results and interpretation
- Making your own projections

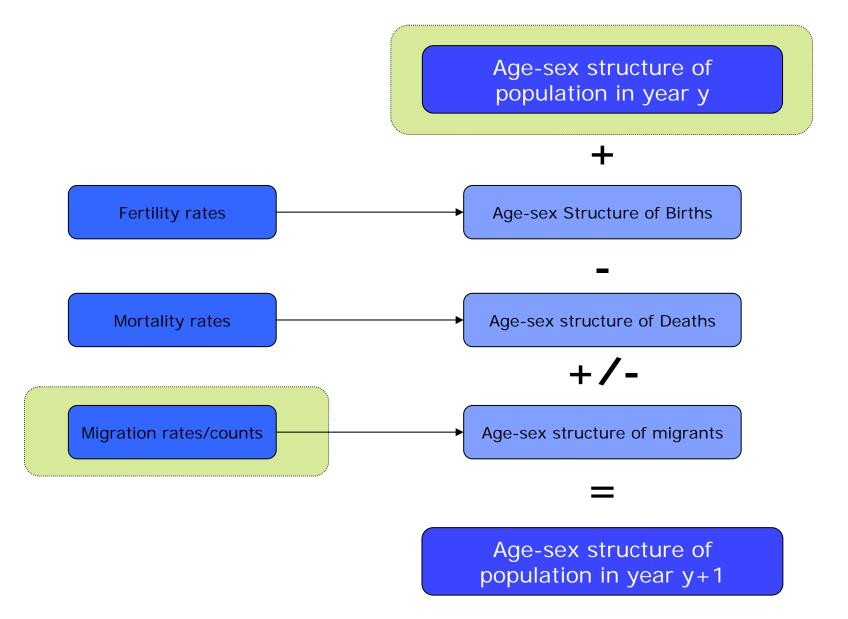
Background

- Motivation is to set-up facility for local authorities to produce their own population projections at regional level
- POPGROUP software was selected for this purpose
- Selected POPGROUP options resemble GROS projections procedure but do not follow it 100%
- Each local authority will get input files with principal assumptions to use in POPGROUP
- Data from the GROS and ONS was manipulated to fit into POPGOUP format
- Provided assumptions can be changed to produce different population projections at regional level

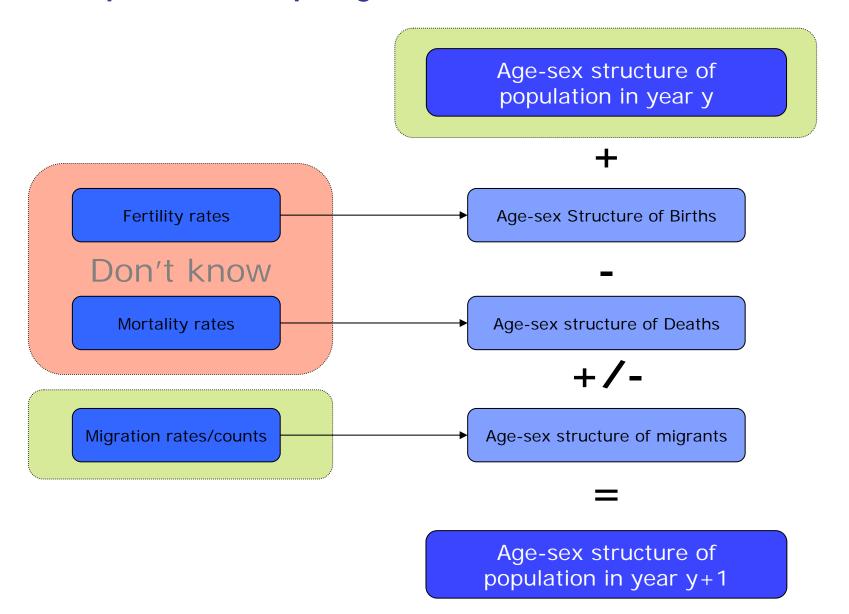
Population projections



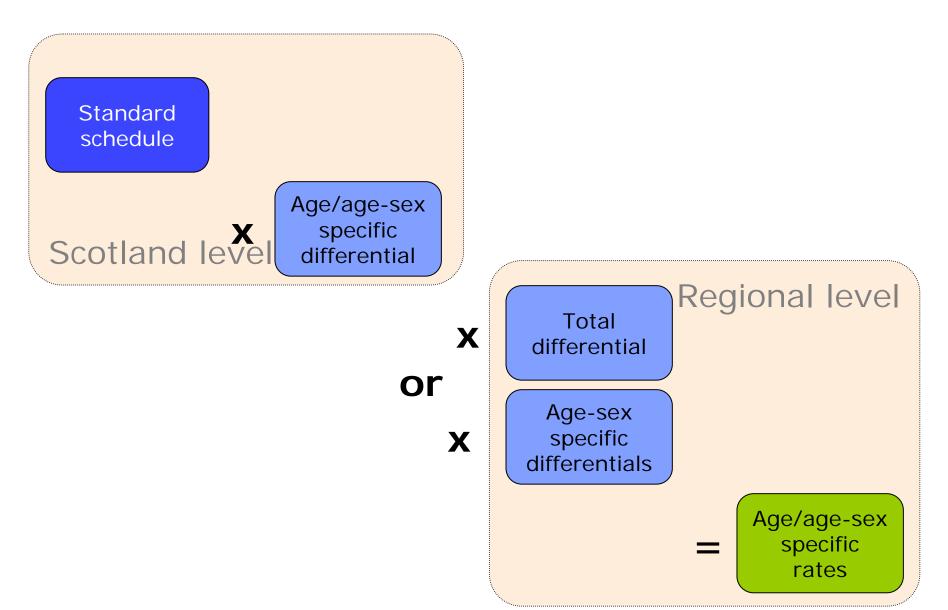
Population projections



Population projections

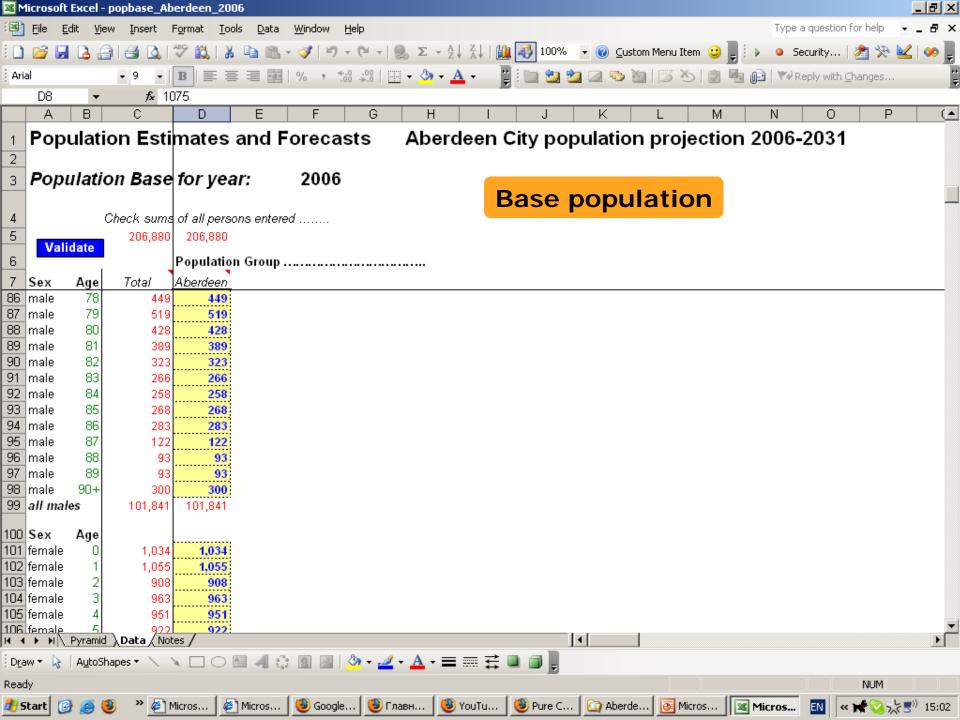


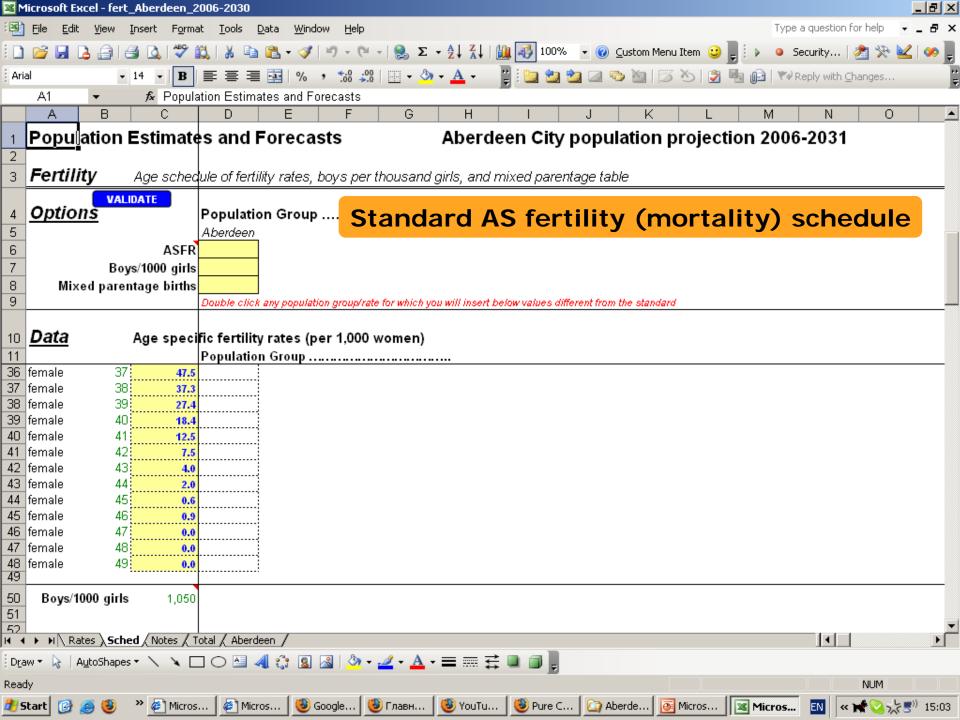
Calculation of age/age-sex specific rates

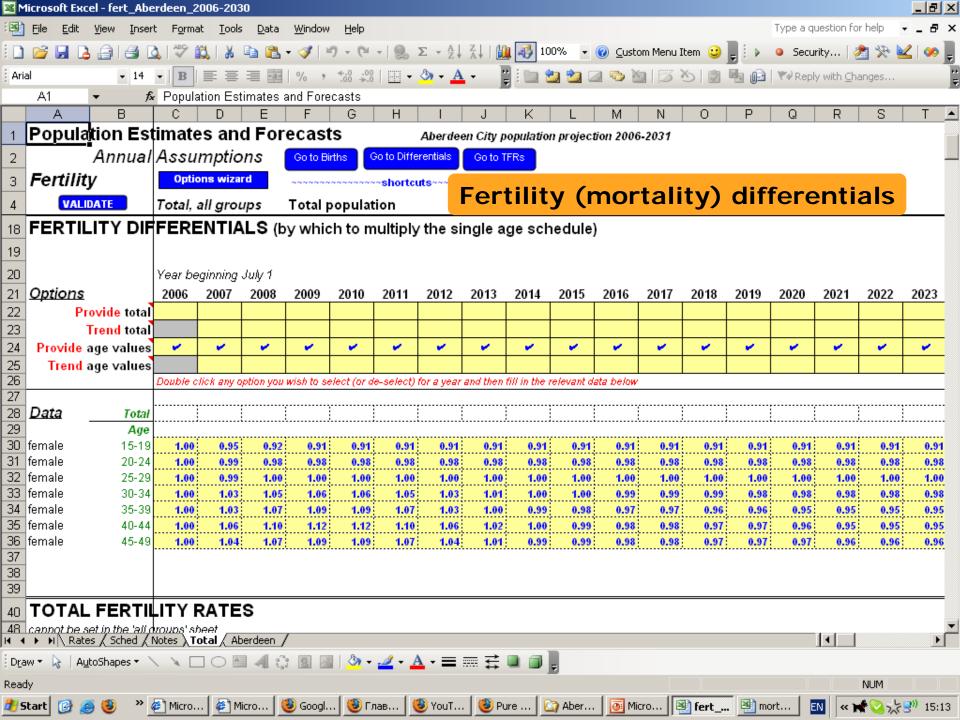


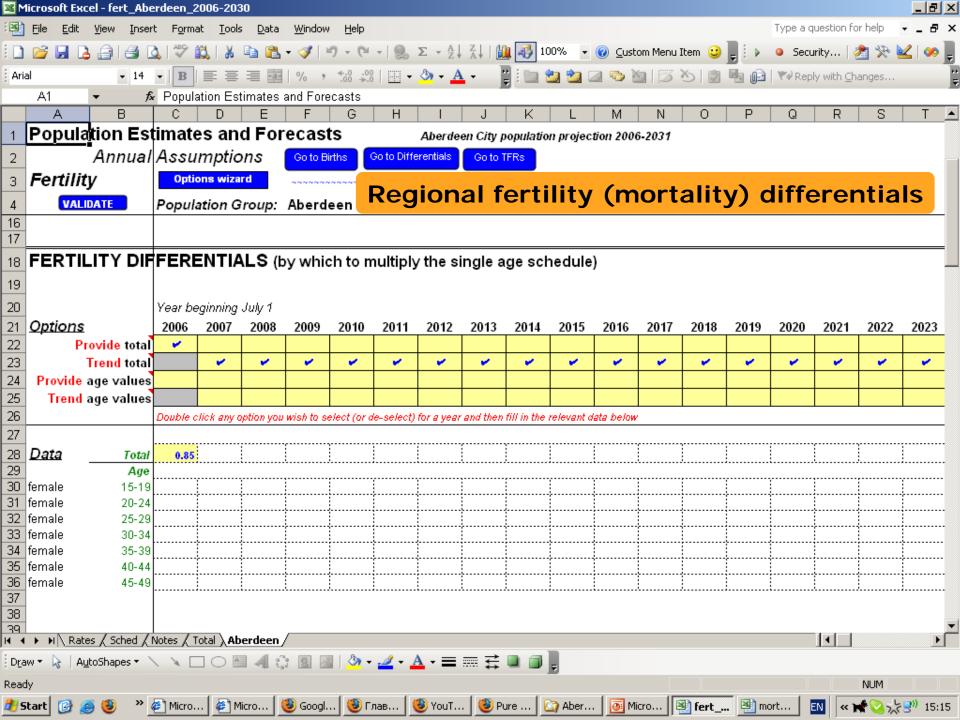
POPGROUP: input files

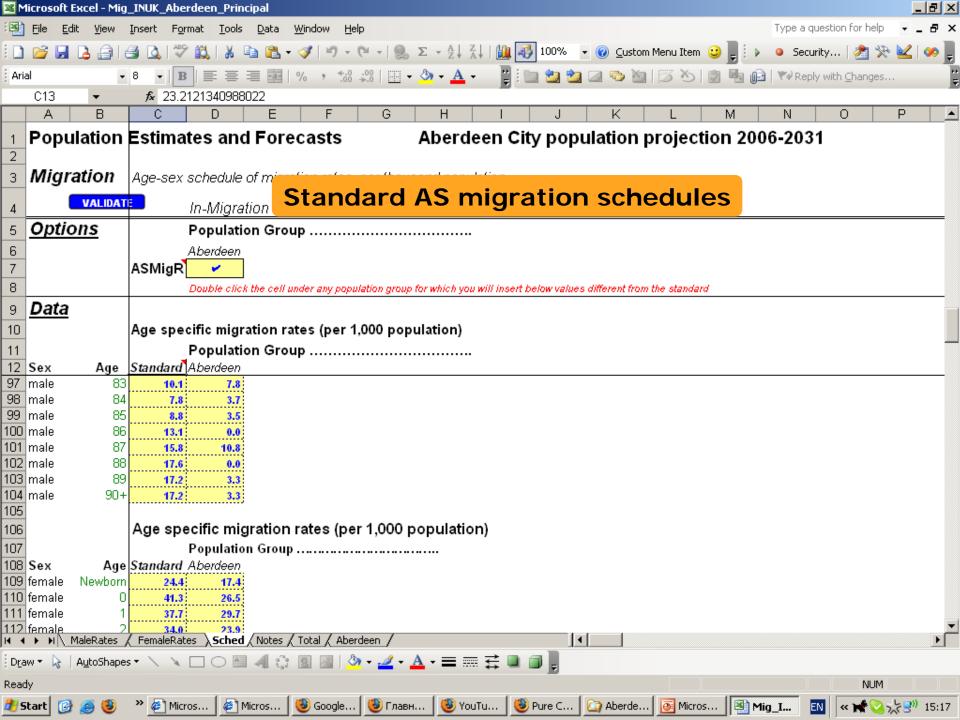
- Base population
 - -by sex and single year of age
- Mortality/fertility assumptions
 - -Standard schedule by single year of age and sex
 - -5-year age group differentials for each year of the projection
 - Local authority specific total fertility and age-specific mortality differentials
- In and out migration assumptions
 - -Standard schedule by single year of age and sex
 - -Number of migrants by 5-year age groups and sex

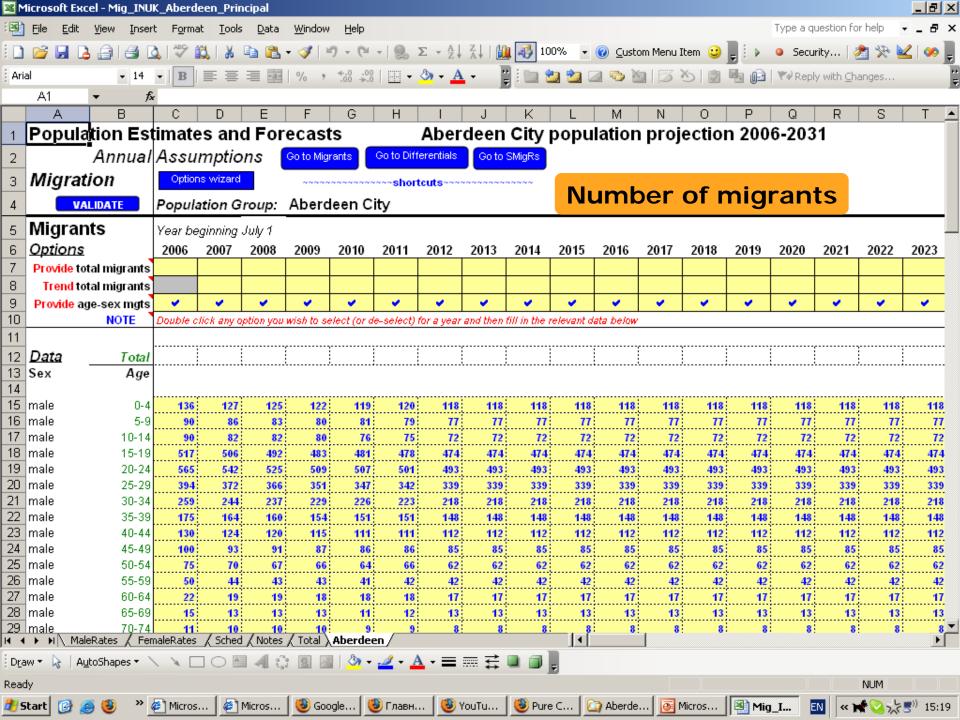






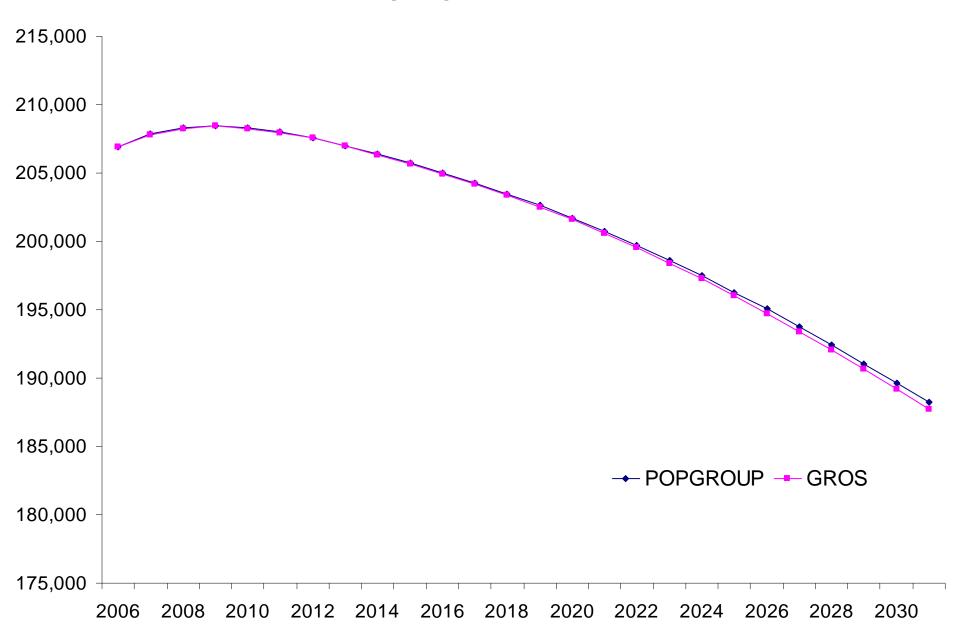




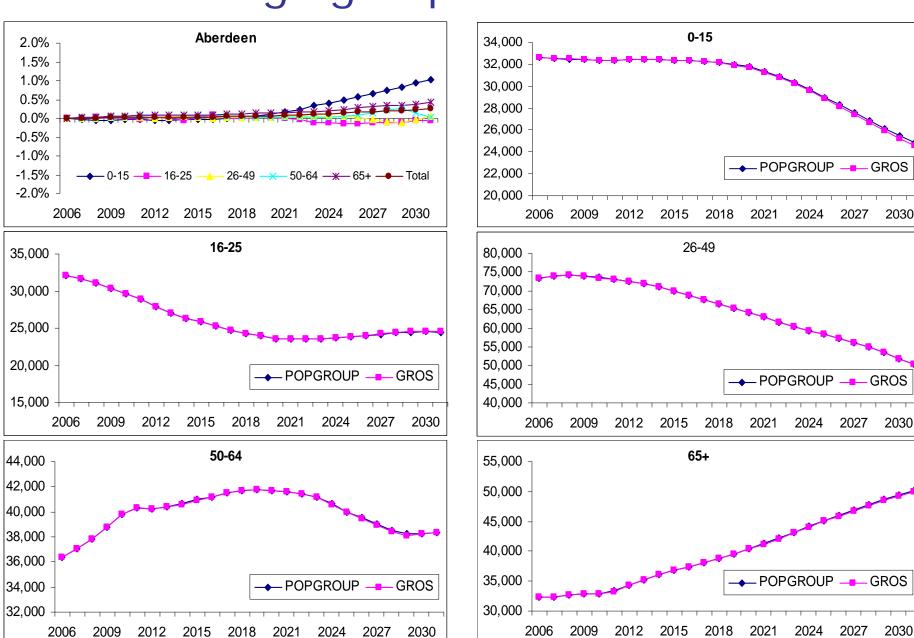


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Aberdeen total population



Selected age groups



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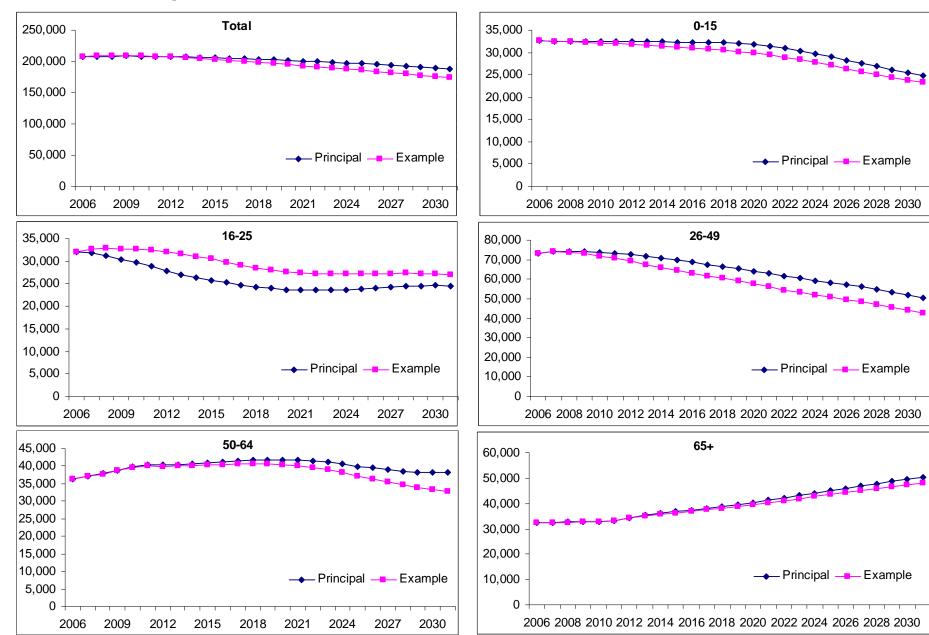
Changing assumptions

- Don't change standard schedule
- To change fertility/mortality assumptions
 - Change differentials
 - ✓ Scotland level
 - √ Regional level
- To change migration assumptions
 - Change number of in or out migrants

Example

- Double net migration
 - Increase in-migration
 - Decrease out-migration
 - Change both
- Determine important age groups
- Compare results

Example: results



Percentage difference with official projections

